

Product datasheet for MR222391

Mpig6b (NM_001191012) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Mpig6b (NM_001191012) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Mpig6b
 Synonyms: AU023871; C6orf25; G6b; Ng31
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR222391 representing NM_001191012
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCCTTGGTCCTGCCGCTGCTGCCTTTGTTGCTCTCAAAGGTCCAGGGGAATCCCGAGGTTTCTTTGG
 AGGGCAGCCCTGGGGACCGGGTGAATCTCTCTGCATAGGGGTCTCCGACCCACCCGCTGGGCTTGGGC
 GCCTAGTTTCCCAGCATGCAAGGGCTTGCTAAAGGGCGCCGTCGATCTTGTGGCCTCGACGAGAGGG
 ACCCCAACGTGCTCCAGCATTTCTCTGGCCGCTGCGTTCCTGGACAATGGTATCAAGCGGCTAGAGC
 TGCTGCTGAGCGCCGGGATTCTGGAACCTTTTTCTGCAAAGGACGCCACGAGAATGAGAGTCGCACAGT
 GCTTCAAGTGTTAGGGGACAAGGCAGGTTGCCGGCCTGCAGGATCTACCCACGGGTACGAGTATCCCAAG
 GCCTGATTCCGCTCCTGGGCGTTGGGCTTGCTGCTGGGACTGGGAGTCGGGGCGTGGTCTGGCGGCGGC
 GCAGACTCTCGCCTCCGCCCCACCCCGCCCGCTGGACCACTACCCACATTTGCTCCAGTCATAAA
 TGCTGAGCCACAGAGGCCTTTAGAACAGGAGTCCAAGATCTCAGGCCACCTGGACCAGGAGCCGAGCCTG
 CACTACGCTGATCTGGACCACTGTCTCCTCGGGAGGCACCGCCGATGTCCACAGTGTTTCTGGTGATG
 CCTCCACTGTCTATGCGGTTGTAGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222391 representing NM_001191012
 Red=Cloning site Green=Tags(s)

MALVLP LLPLLLSKVQGNPEVSLEGSPGDRVNLSCIGVSDPTRWAWAPSFPA CKGLSKGRRPILWASTRG
 TPTVLQHFSGRLRSLDNGIKRLELLL SAGDSGTFFCKGRHENESRTVLQVLGDKACRPA GSTHGYEYPK
 VLIPLLGVGLVLGLGVAGVWRRRRRLSPPPPPPPPPG PLPTFAPVINAEPQRPLEQESKISGHLDDQEPSL
 HYADLDHSVLGRHRRMSTVVSGDASTVYAVVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9024_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001191012

ORF Size: 726 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001191012.1](#), [NP_001177941.1](#)

RefSeq Size: 2382 bp

RefSeq ORF: 729 bp

Locus ID: 106722

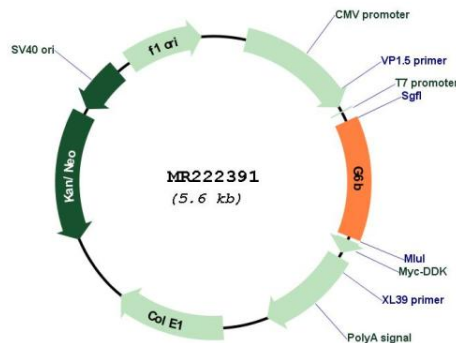
UniProt ID: [D7PDD4](#)

Cytogenetics: 17 B1

MW: 26.5 kDa

Gene Summary: Inhibitory receptor that acts as a critical regulator of hematopoietic lineage differentiation, megakaryocyte function and platelet production (PubMed:23112346). Inhibits platelet aggregation and activation by agonists such as ADP and collagen-related peptide (By similarity). This regulation of megakaryocyte function as well as platelet production and activation is done through the inhibition (via the 2 ITIM motifs) of the receptors CLEC1B and GP6:FcRgamma signaling (PubMed:23112346). Appears to operate in a calcium-independent manner (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222391